

CLAIMS

1. A battery terminal connection assembly for connecting a terminal to a cable, the assembly comprising:

- 5 • a conductive cable fitting having a first and second end, the first end for connection to a cable;
- a conductive terminal connector having an arm adapted to engage the terminal, the connector including a hole;
- a cold-flow-resistant sleeve positioned in the hole and bonded to the connector, the sleeve defining a bore for receiving the second end of the cable fitting; and
- a tensioning member adapted to connect to the second end to urge the cable fitting into contact with the bore;

10 whereby, when assembled, the tensioning member ensures electrical contact between the cable and the terminal.

15 2. The connection assembly of claim 1 wherein the bore defines a bore axis and the tensioning member is adapted to urge the cable fitting along the bore axis.

20 3. The connection assembly of claim 2 wherein the tensioning member is a threaded bolt and the second end includes a threaded cavity such that the bolt and cable fitting are screwed together to urge the fitting into the bore along the bore axis.

25 4. The connection assembly of claim 3 wherein the bolt includes a head and the tensioning member further comprises a lock washer which is adapted to abut the head and the connector when the bolt and cable fitting are screwed together.

30 5. The connection assembly of claim 3 wherein the cable fitting includes an external portion adapted to be gripped when the bolt and cable fitting are screwed together.

6. The connection assembly of claim 1 wherein the first end of the cable fitting includes a recess adapted to receive the cable.

7. The connection assembly of claim 1 wherein the arm forms an opening
5 which is adapted to receive the terminal.

8. The connection assembly of claim 1 wherein the sleeve has proximal and distal ends, at least one of the ends being non-circular, such that rotation of the sleeve relative to the connector is prevented.

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9. The connection assembly of claim 8 wherein the cable fitting has a conical portion terminating at the second end and the bore has a conical portion terminating at the proximal end such that the cable fitting mates with the bore.

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10. A battery terminal and cable connection arrangement comprising:

- a battery having a terminal;
- a conductive terminal connector having an arm adapted to engage the terminal, the connector including a hole;
- a cold-flow-resistant sleeve positioned in the hole and bonded to the connector, the sleeve defining a bore extending from a proximal end to a distal end;
- a conductive cable fitting having first and second ends, the fitting entering the proximal end such that the second end is received within the bore;
- a tensioning member entering the distal end of the bore and fixed to the second end of the fitting, the tensioning member urging the cable fitting into contact with the bore; and
- a conductive cable fixed to the first end of the cable fitting.

15 11. The terminal and cable connection arrangement of claim 10 wherein the terminal is a terminal post and the arm forms an opening, the terminal post received in the opening and secured to the arm.

20 12. The terminal and cable connection arrangement of claim 10 wherein the bore defines a bore axis and the tensioning member is adapted to urge the cable fitting along the bore axis.

25 13. The terminal and cable connection arrangement of claim 10 wherein the tensioning member is a threaded bolt and the second end includes a threaded cavity such that the bolt and cable fitting are screwed together to urge the fitting into the bore along the bore axis.

30 14. The terminal and cable connection arrangement of claim 10 wherein the first end of the cable fitting includes a recess adapted to receive the cable.

15. The terminal and cable connection arrangement of claim 10 wherein at least one of the proximal and distal ends is non-circular such that rotation of the sleeve relative to the connector is prevented.

5 16. The terminal and cable connection arrangement of claim 10 wherein the cable fitting has a conical portion terminating at the second end and the bore has a conical portion terminating at the proximal end such that the cable fitting mates with the bore.

10 17. A battery terminal and cable connection arrangement comprising:

- a battery having a terminal;
- a conductive terminal connector having a hole and a first connecting means for connecting to the terminal;
- a cold-flow-resistant sleeve positioned in the hole and bonded to the connector, the sleeve defining a bore extending from a proximal end to a distal end;
- a conductive cable fitting having first and second ends, a second connecting means at the second end for urging the fitting into connection with the terminal connector, the second end received within the bore; and
- a conductive cable fixed to the first end of the cable fitting.

15 18. The terminal and cable connection arrangement of claim 17 wherein the terminal is a terminal post and the arm forms an opening, the terminal post received in the opening and secured to the arm.

20 19. The terminal and cable connection arrangement of claim 17 wherein the bore defines a bore axis and the second connecting means urges the cable fitting along the bore axis.

20. The terminal and cable connection arrangement of claim 17 wherein at least one of the proximal and distal ends is non-circular such that rotation of the sleeve relative to the connector is prevented.